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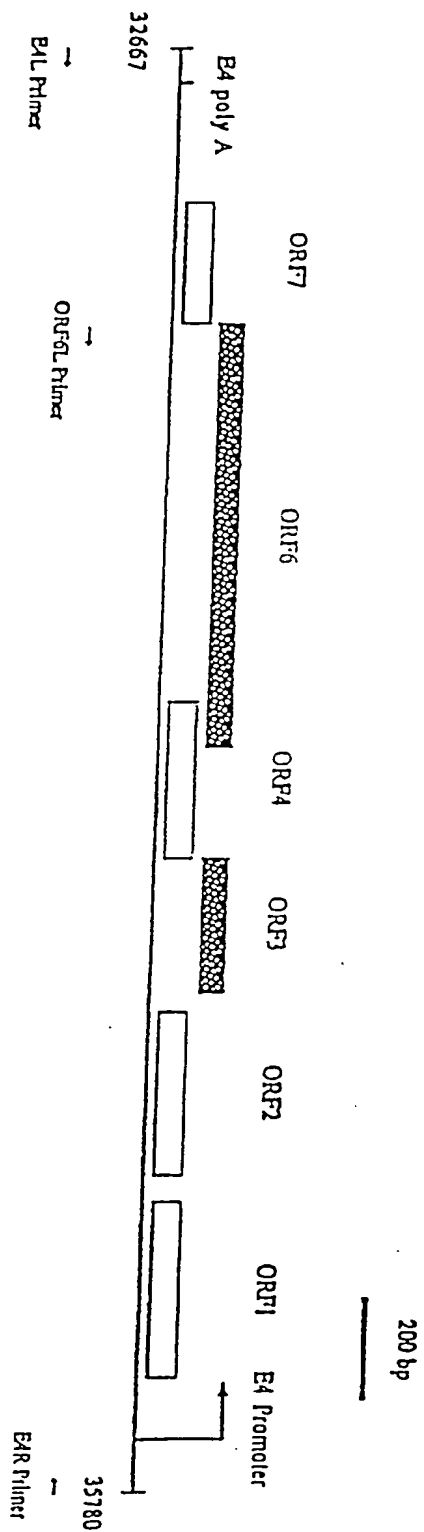


Figure 1

00103030 044100

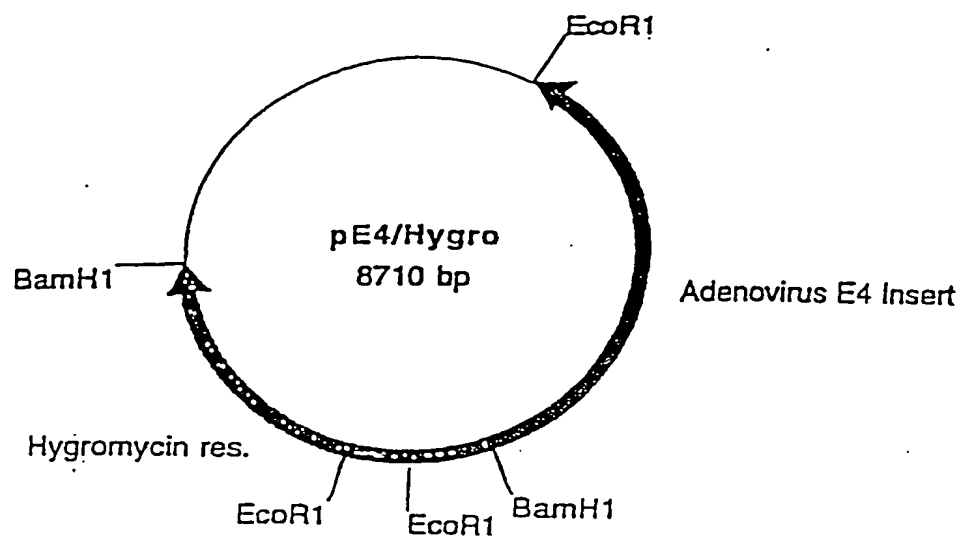


Figure 2

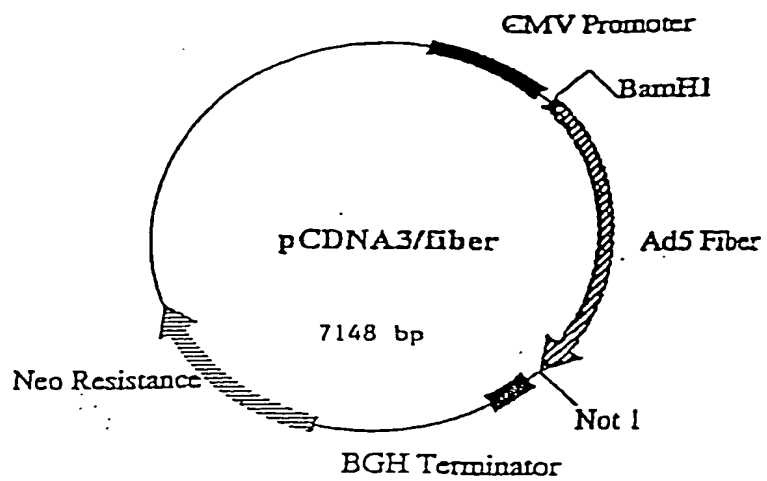


FIGURE 3

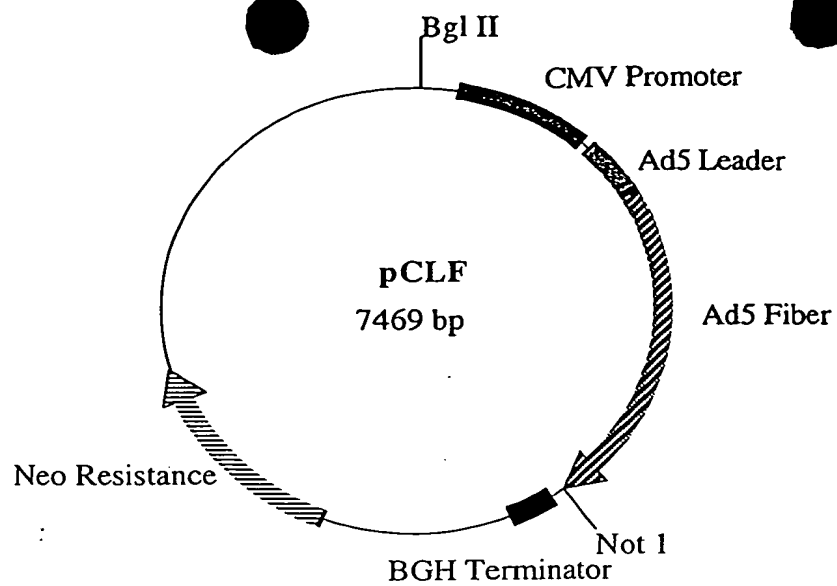


Fig. 4

00110 2030100

001102030405

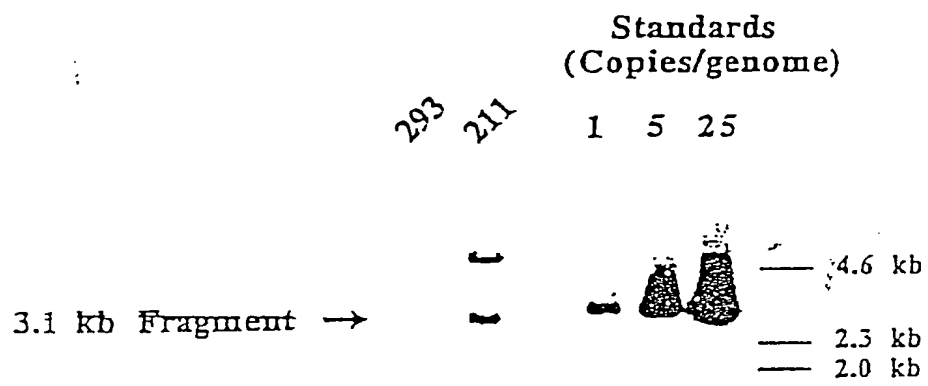


Figure 5

B

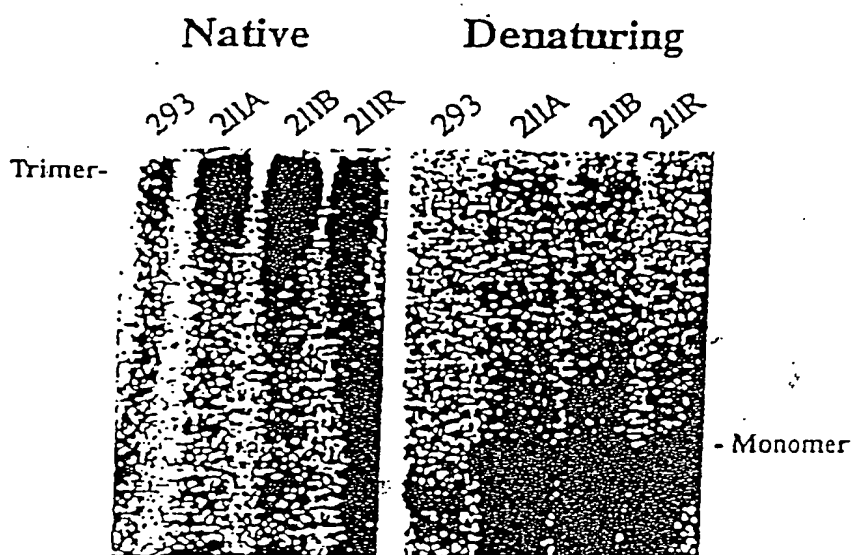


Figure 6

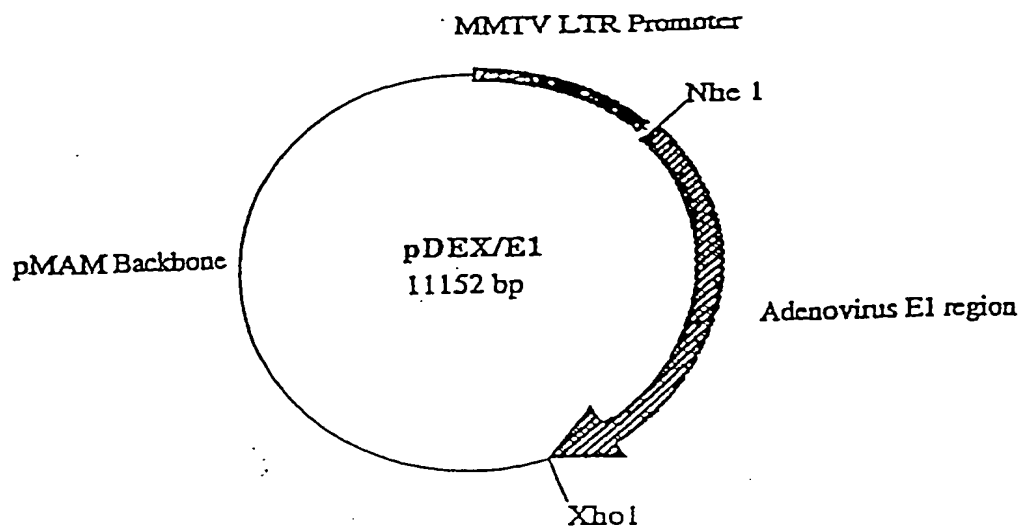


Figure 7

00110263600

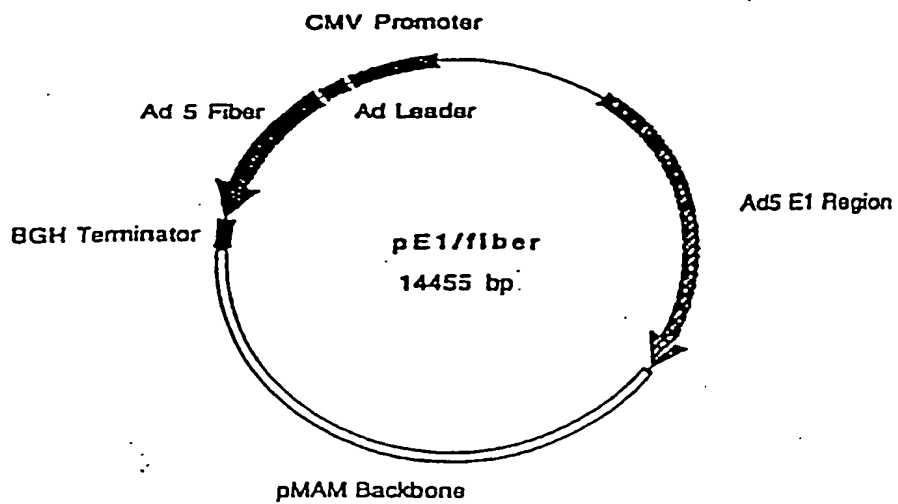


Figure 8

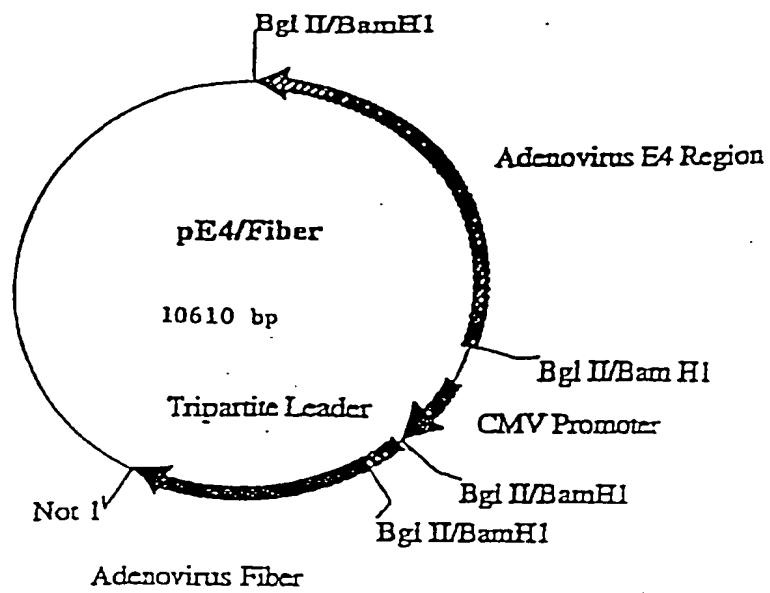


Figure 9

Functional
Packaging
Sequences



BI Deleted
LacZ Inserted

pALBpGal

FIGURE 10

00103582 041100

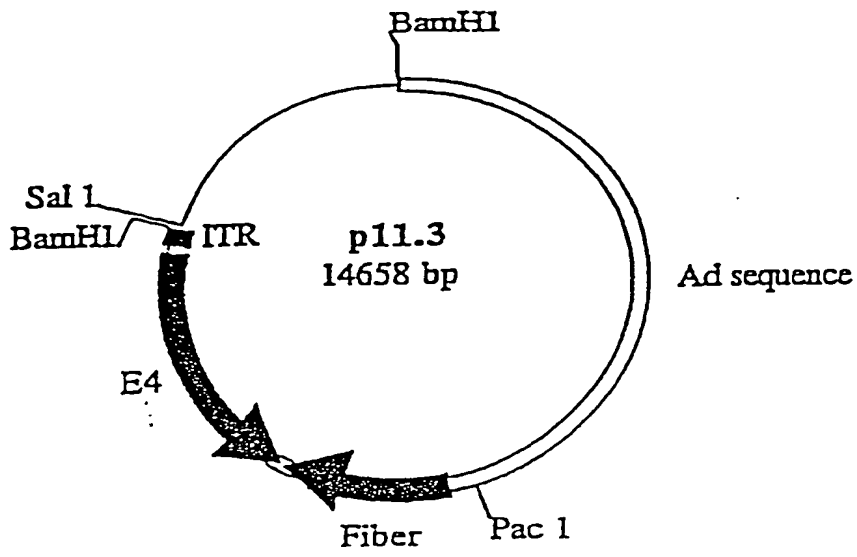


Figure 11

001110 20320100

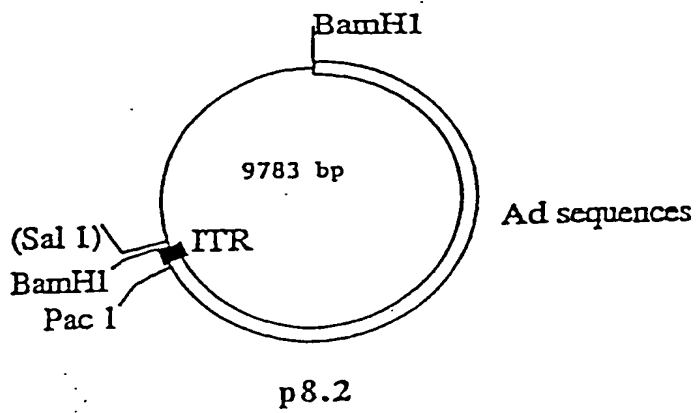


FIGURE 12

Labeled Cell Extracts

Recombinant Fiber

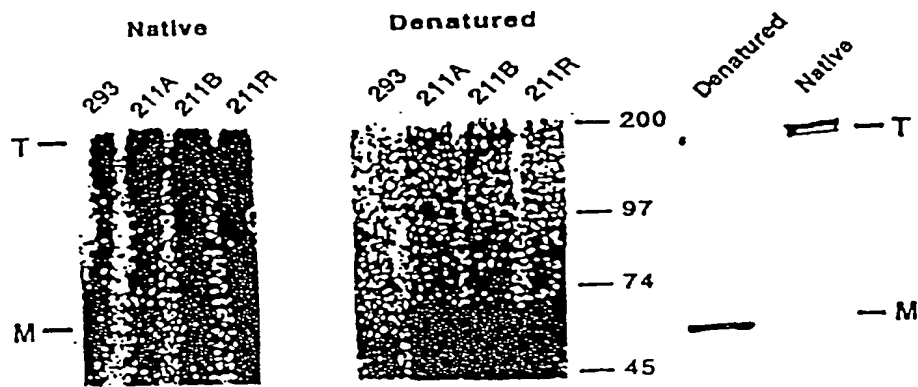


Figure 13

00110200 044100

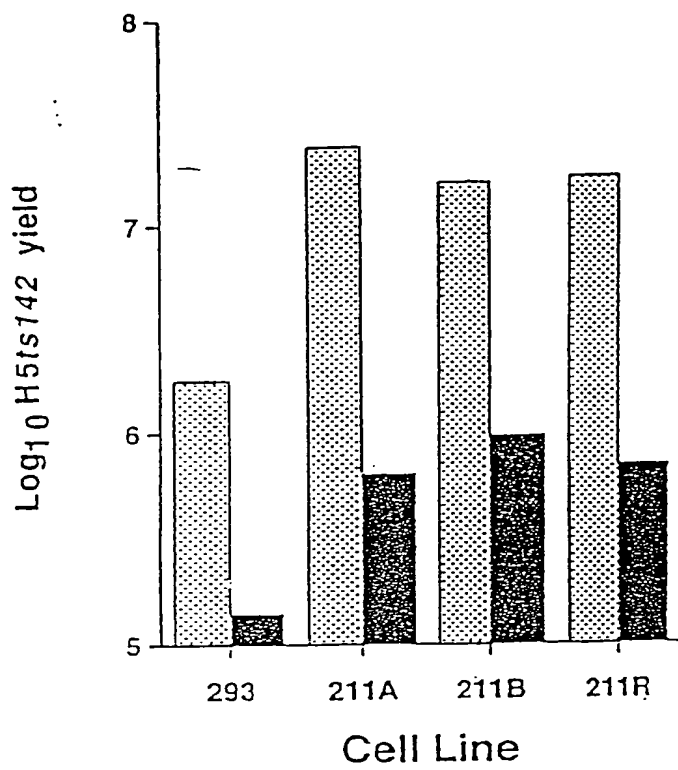


Figure 14

A

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ad25 | M | K | R | A | R | S | E | T | R | P | V | P | V | O | T | E | T | G | P | P | T | V | P | F | L | T | P | P | F | V | S | P | I | G | F | O | E | S | P | | | | |
| Ad3 | M | A | K | R | A | R | L | S | - | T | S | C | H | P | V | V | P | V | E | D | S | S | - | G | H | P | F | I | N | P | P | F | I | S | P | D | G | F | T | O | S | P | |
| Ad18/37 | M | S | K | R | L | R | V | E | D | - | F | H | P | V | V | P | V | G | T | A | R | N | O | - | N | I | P | F | L | T | P | P | F | V | S | E | D | G | F | K | N | F | D |
| Ad40 (1) | M | - | K | R | A | R | F | - | E | D | D | F | H | P | V | V | P | V | E | N | Y | N | - | D | L | I | P | F | L | T | P | P | F | A | S | S | N | G | L | O | E | K | D |
| Ad40 (2) | M | - | K | R | T | R | - | I | E | D | D | F | H | P | V | V | P | V | O | T | S | T | P | S | - | I | P | V | A | D | P | F | V | S | S | D | G | L | O | E | K | D | |

B





| Virus Serotype: | Ad2 | Ad3 | | |
|-----------------|---|---|---|--|
| Cell Line: | 293 | 211B | 211R | 293 |
| Ad2/5 Fiber |  |  |  |  |

Figure 15

FIGURE 16

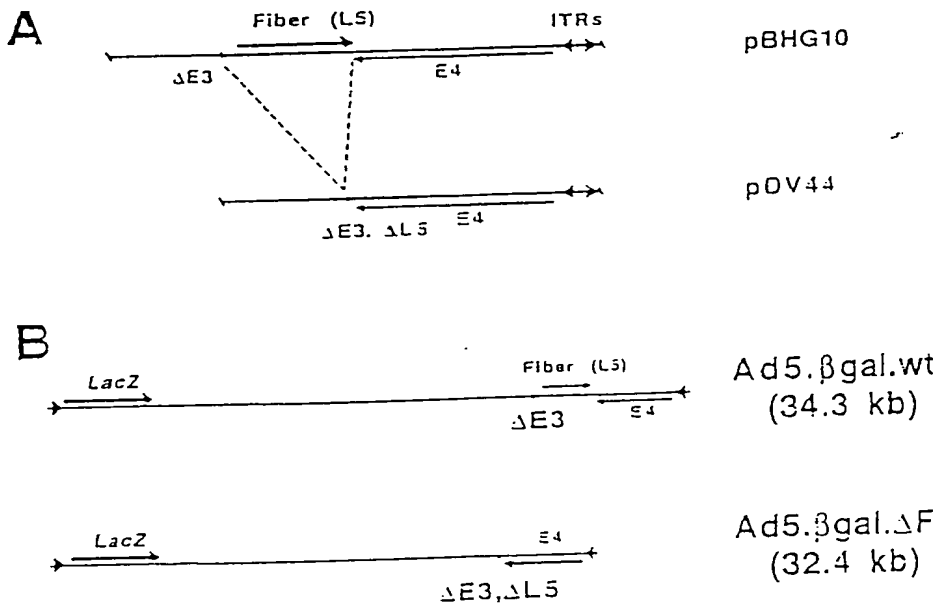


FIGURE 17

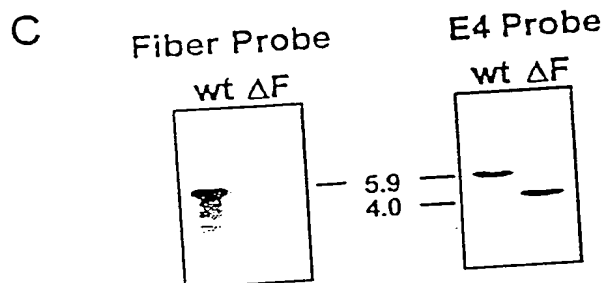
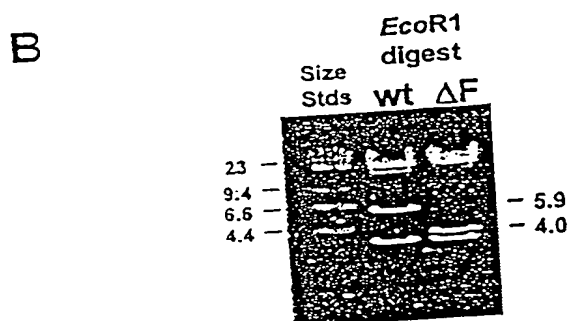
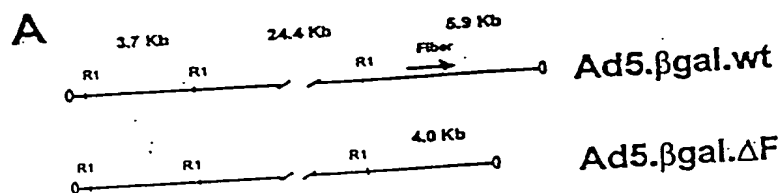


FIGURE 18

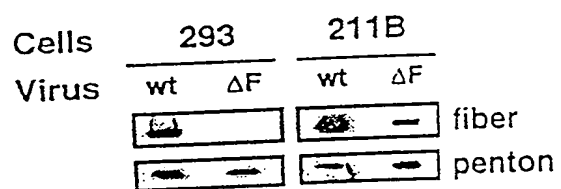
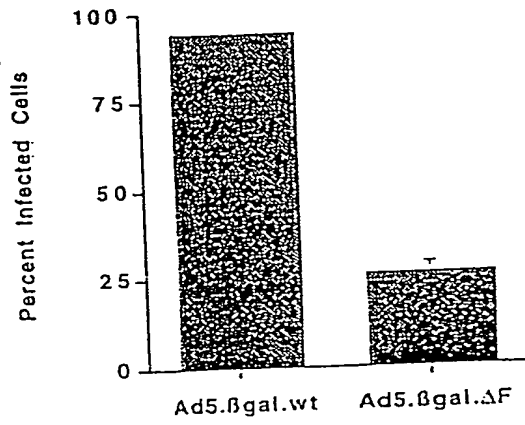


FIGURE 19

A



B

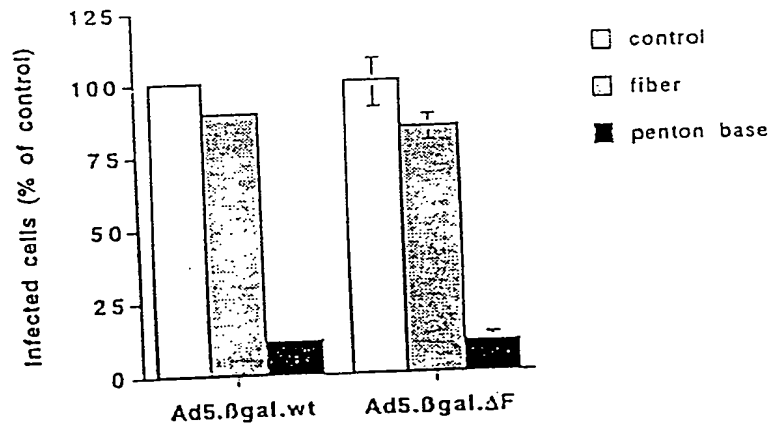
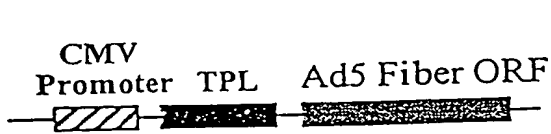
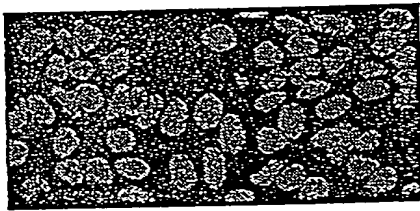


FIGURE 20

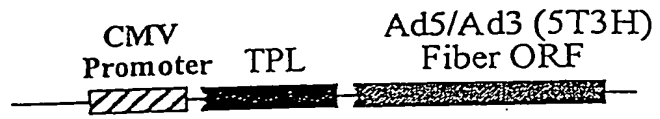
Improved Fiber-complementing Cell Lines



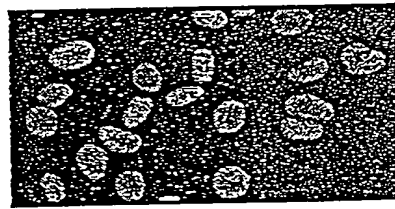
Line 633



Stable nuclear expression of wt Ad5 fiber protein



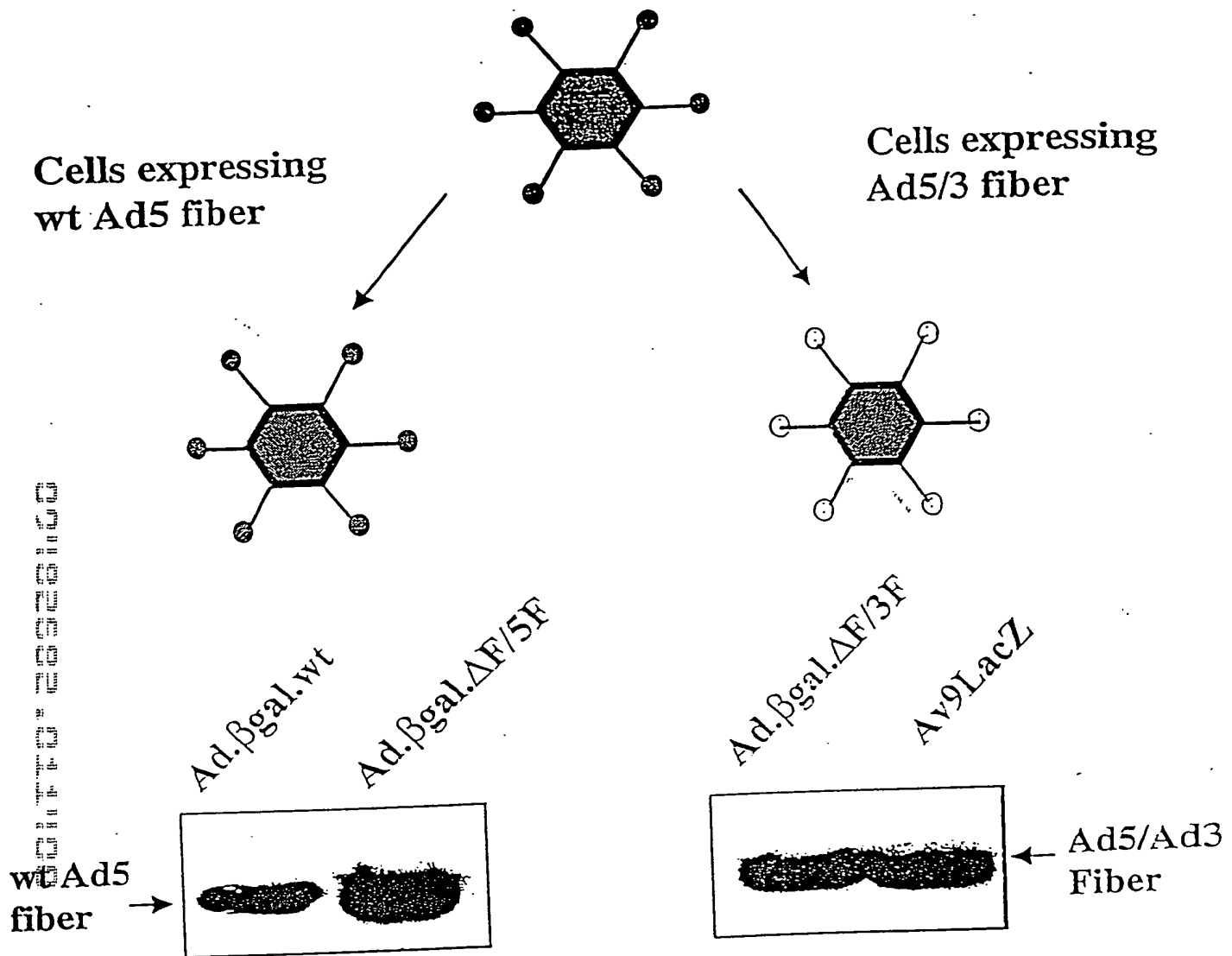
Line 644



Stable nuclear expression of the chimeric Ad5/Ad3 fiber protein

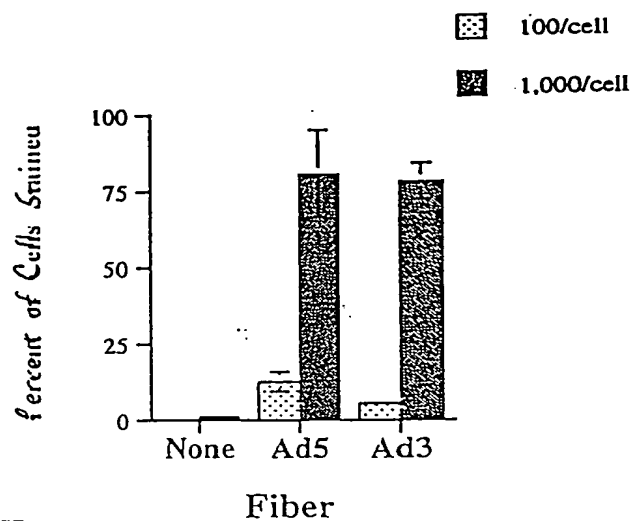
Indirect immunofluorescence assay of A549-based cell lines which stably express two different Ad fibers. Line 633 expresses the native Ad5 fiber protein and line 644 expresses a chimeric fiber protein with the tail and shaft domains of the Ad5 protein and the knob domain of the Ad3 fiber. Previous work (Stevenson *et al.*, 1996) showed that a virus containing this protein had the tropism expected for Ad3.

Pseudotyping of Ad. β gal. Δ F

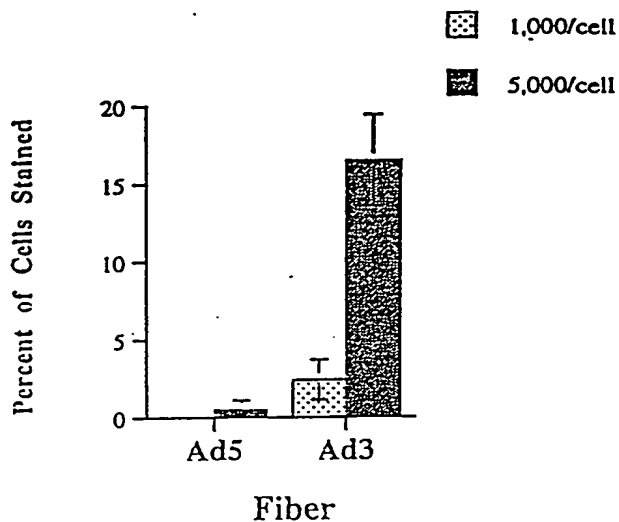


Viral particles were purified from either 633 cells (expressing wt Ad5 fiber) or from 644 cells (expressing the chimeric Ad5/Ad3 fiber). 10 μ g of the purified particles were Western blotted, and the blot was probed with a polyclonal rabbit antibody against the Ad2 fiber. Equal amounts of purified Ad. β gal.wt or Av9LacZ (which has the chimeric fiber gene in the viral chromosome) were run as controls.

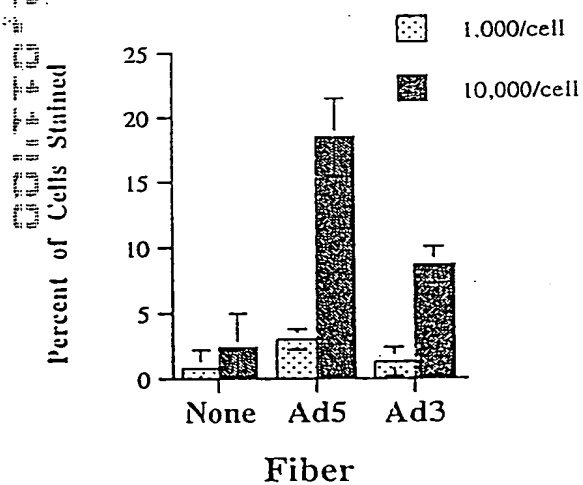
211B Cells (Human Embryonic Kidney)



MRC-5 Human Fibroblasts



A-10 Rat Aortic Endothelial Cells



THP-1 Human Monocytic Cells

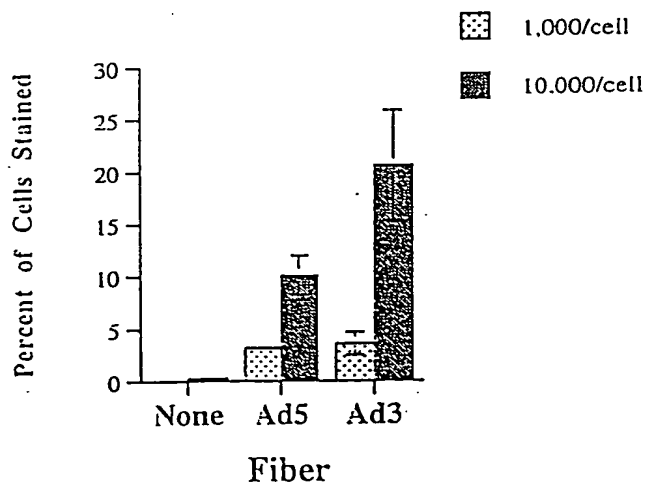
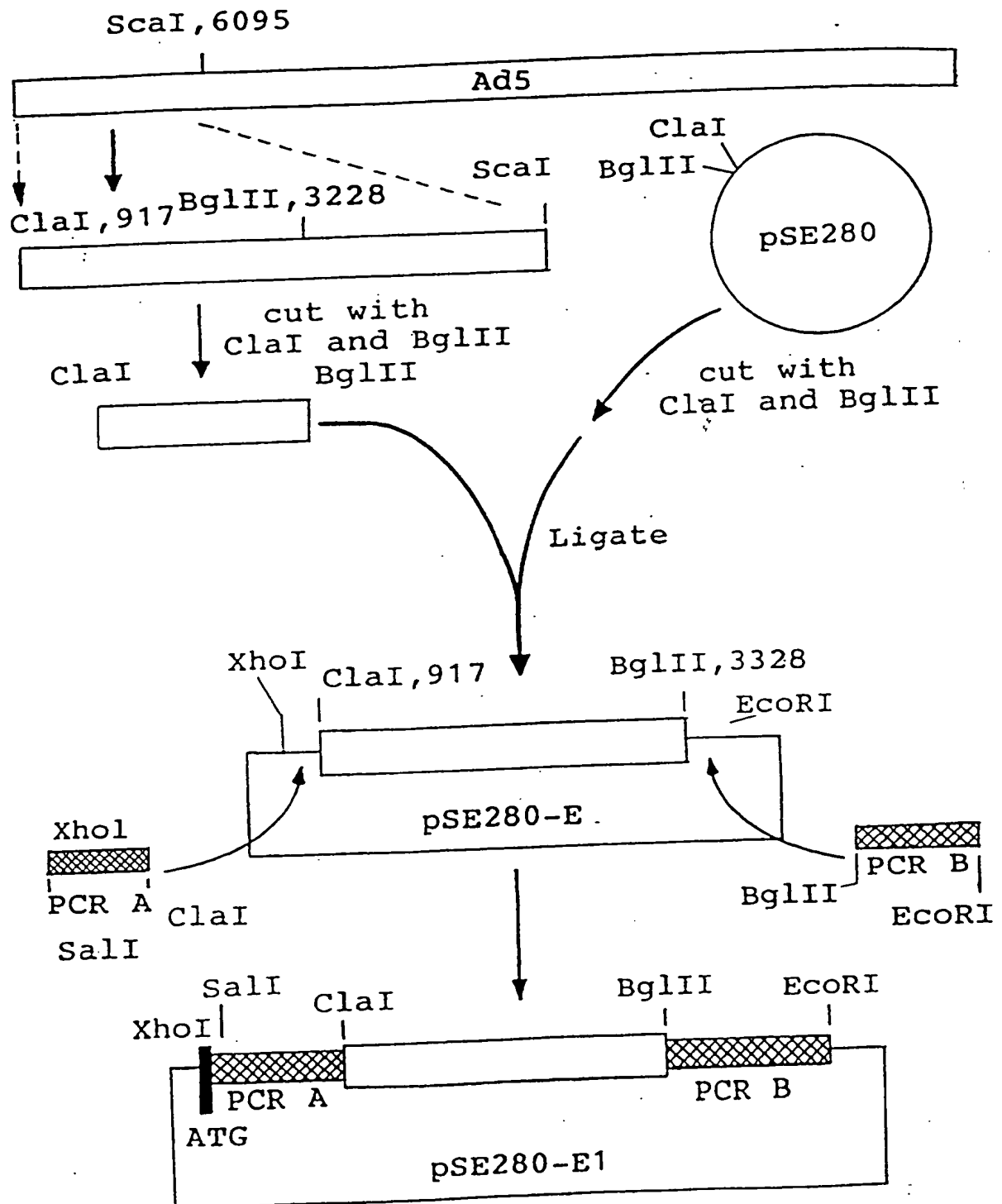
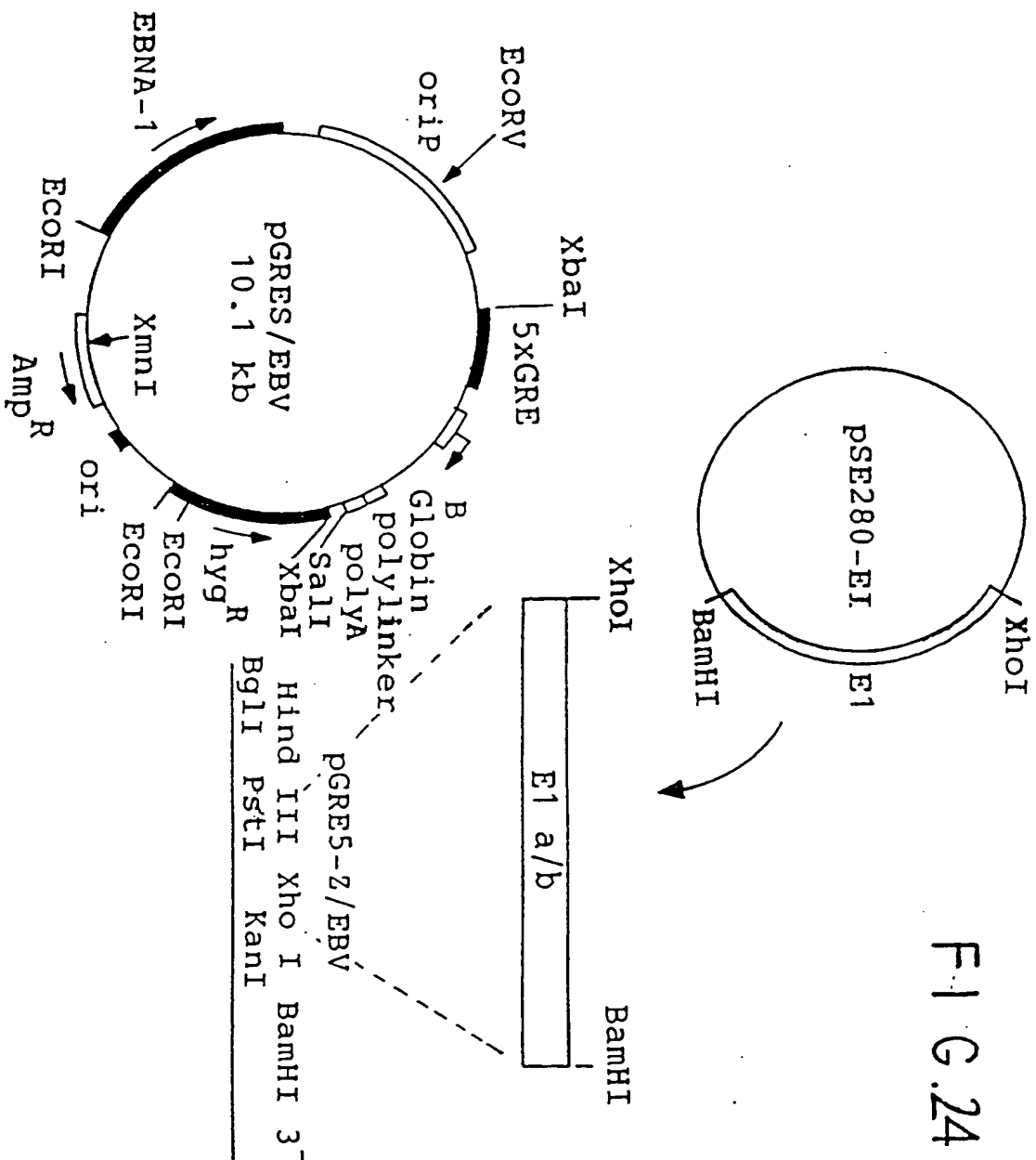


FIG. 23



00110-2020100

F1 G.24



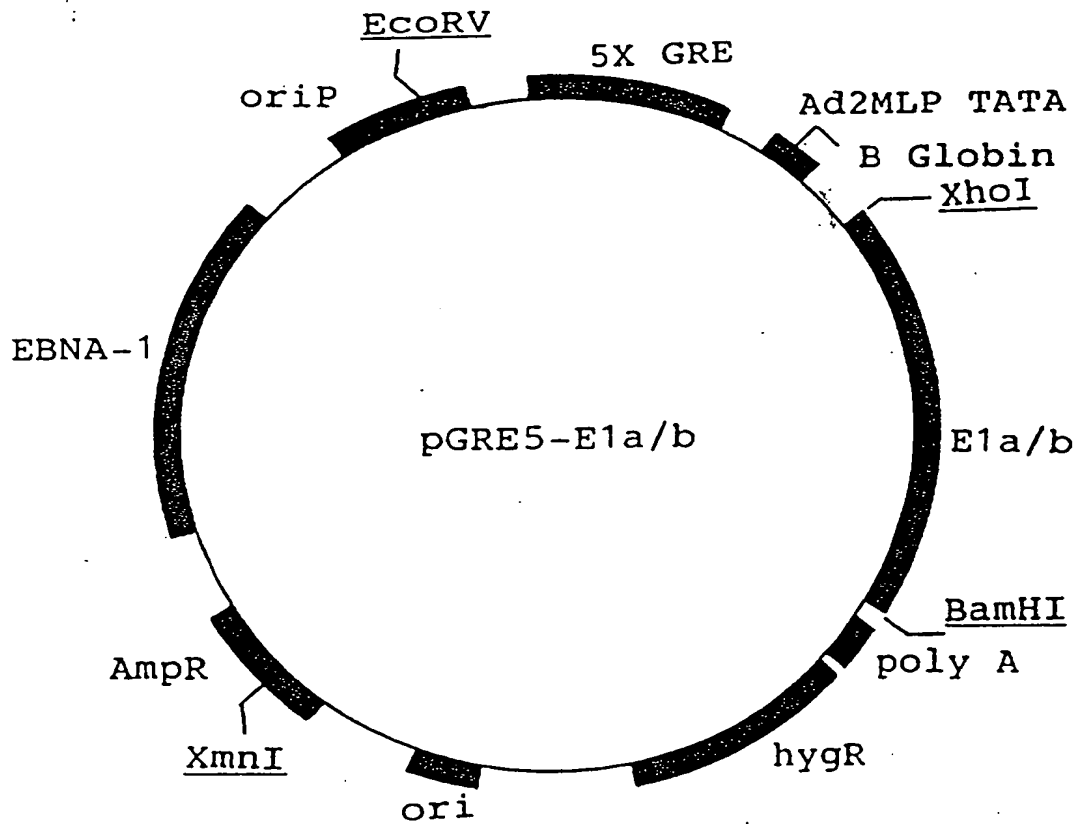
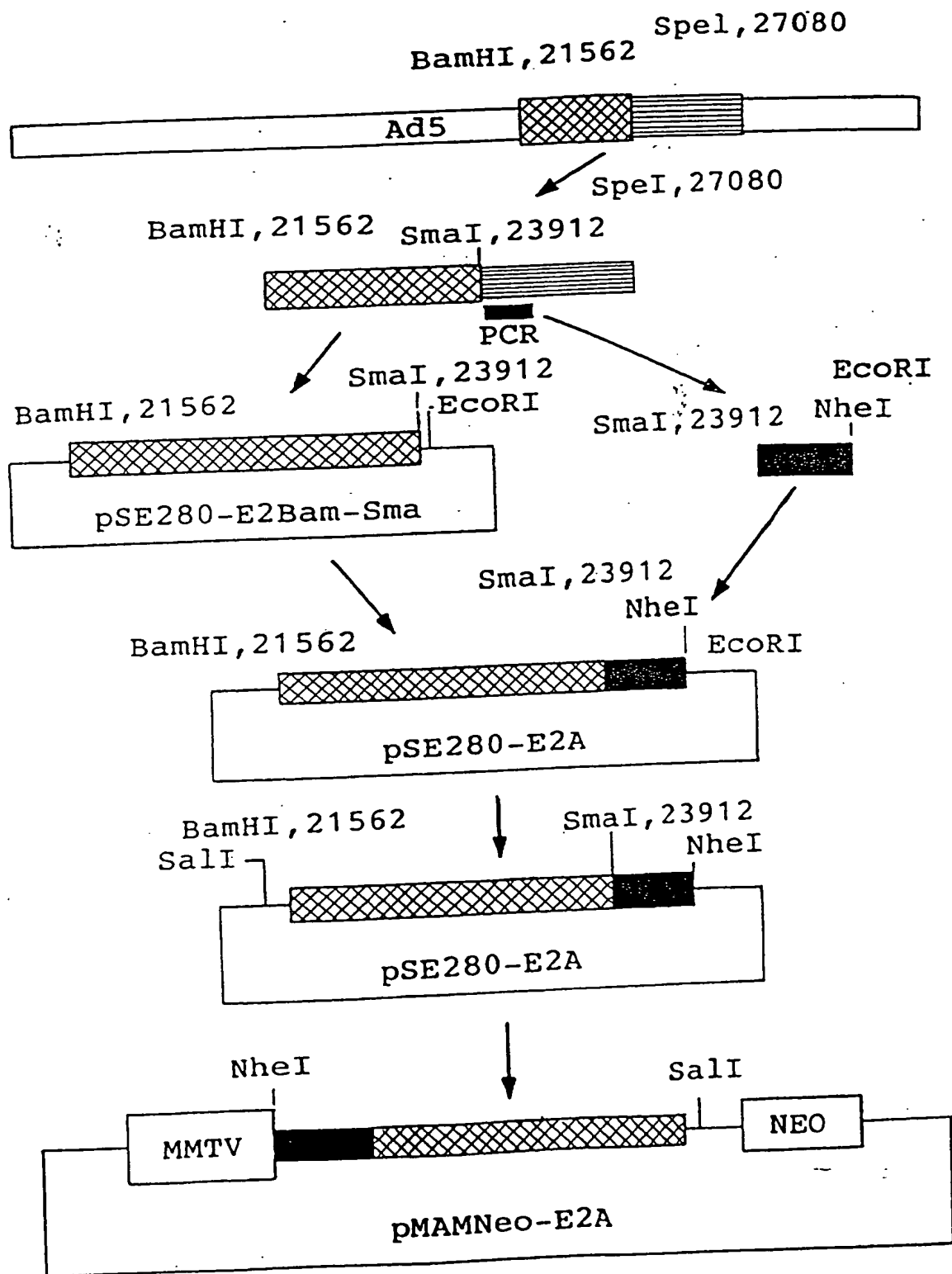
[illegible]

FIG. 26



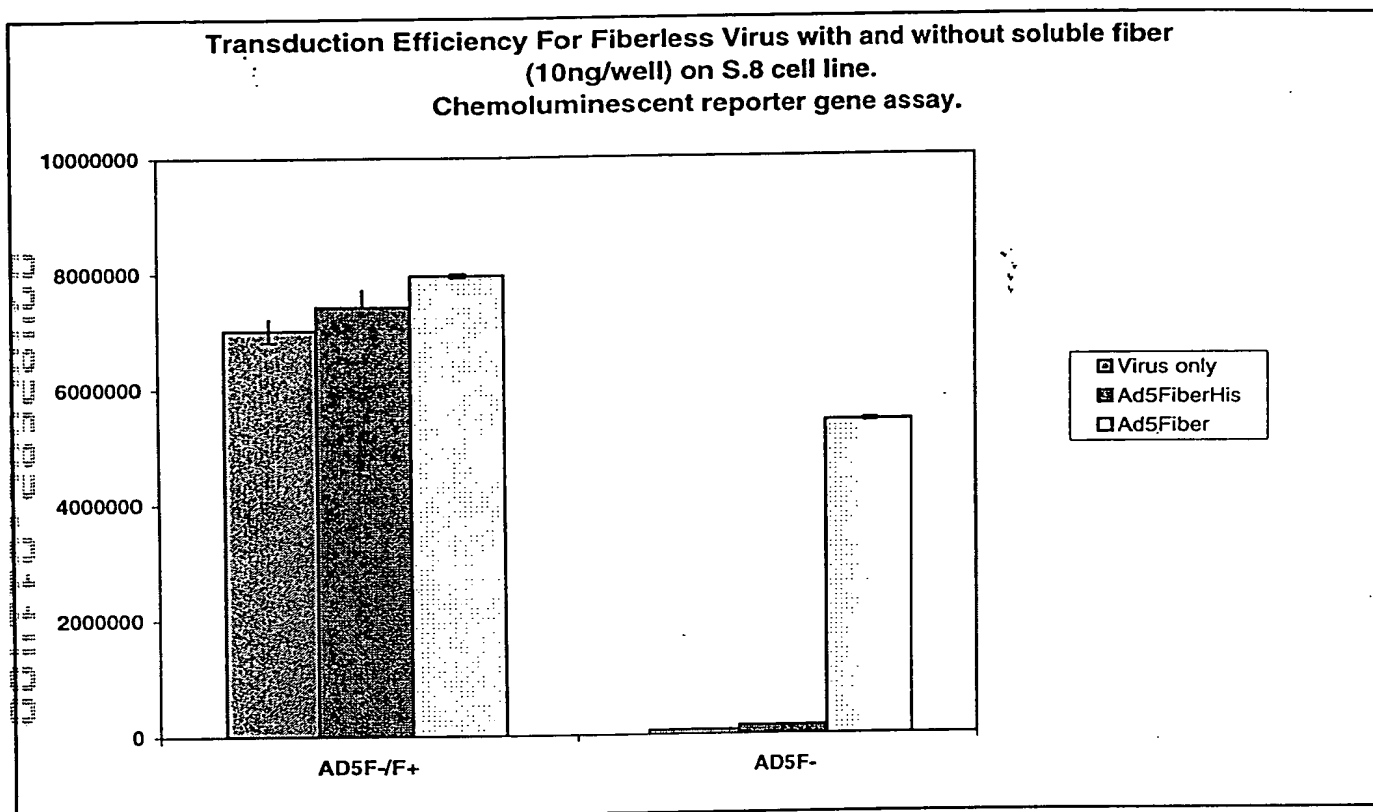


FIGURE 29

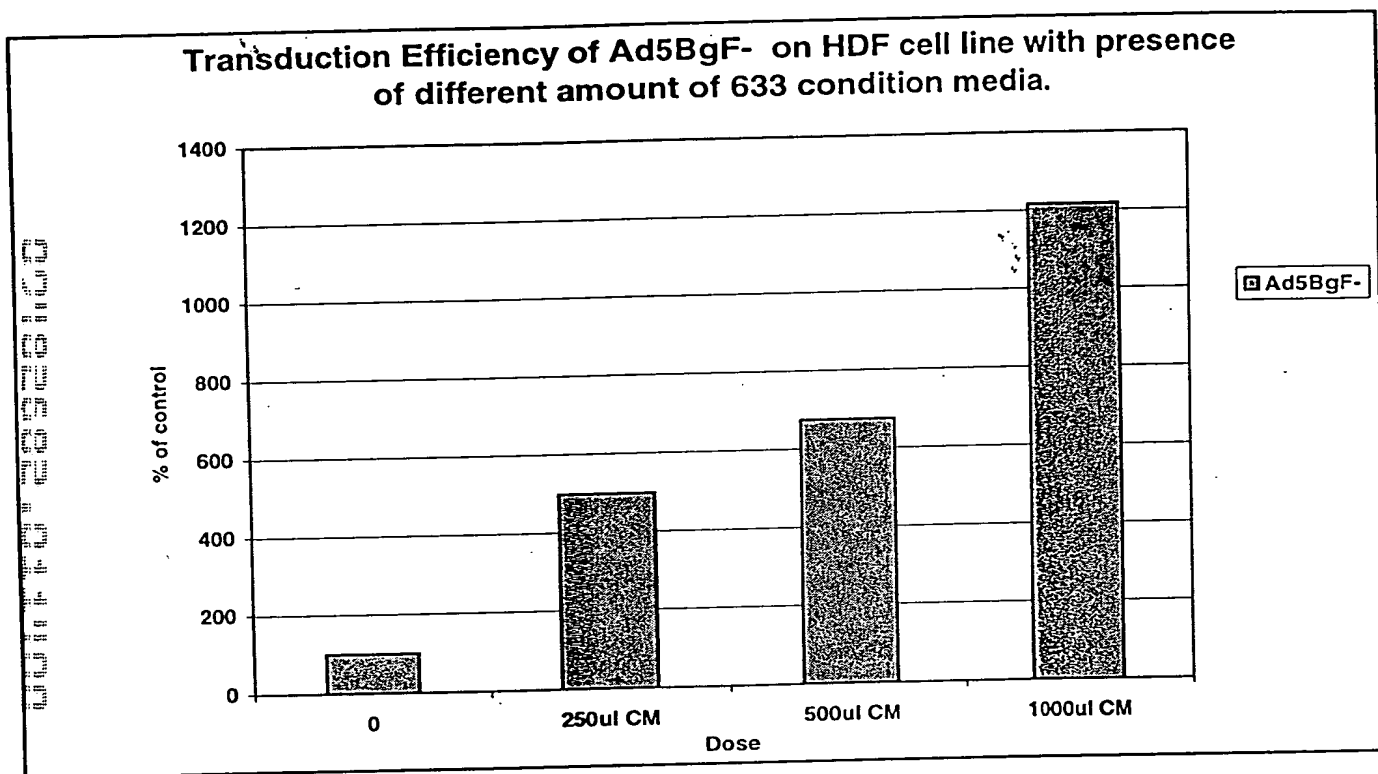


FIGURE 30